

Three Phase String Inverter

SUN-40/45/50K-G04



Max. 4 MPPT trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model	SUN-40K-G04		SUN-45K-G04		SUN-50K-G04	
PV String Input Data						
Max. PV Input Power (kW)	52		58.5		65	
Max. PV Input Voltage (V)	1100					
Start-up Voltage (V)	250					
MPPT Voltage Range (V)	200-1000					
Rated PV Input Voltage (V)	600					
Max. Operating PV Input Current (A)	40+40+40				40+40+40+40	
Max. Input Short Circuit Current (A)	60+60+60				60+60+60+60	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/3+3+3				4/3+3+3+3	
AC Output Side						
Rated AC Output Active Power (kW)	40		45		50	
Max. AC Output Apparent Power (kVA)	44		49.5		55	
Rated AC Output Current (A)	60.6/58		68.2/65.2		75.8/72.5	
Max. AC Output Current (A)	66.7/63.8		75/71.7		83.3/79.7	
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Grid Connection Form	3L/N/PE					
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Total Current Harmonic Distortion THDi	<3%					
DC Injection Current	<0.5%In					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98.1%					
MPPT Efficiency	>99%					
Equipment Protection						
DC Reverse Polarity Protection	Yes					
AC Output Overcurrent Protection	Yes					
AC Output Overvoltage Protection	Yes					
AC Output Short Circuit Protection	Yes					
Thermal Protection	Yes					
Insulation Impedance Detection	Yes					
DC Component Monitoring	Yes					
Arc Fault Circuit Interrupter (AFCI)	Optional					
Anti-islanding Protection	Yes					
Residual Current Detection	Yes					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
DC Switch	Yes					
Interface						
Communication Interface	RS485/RS232 /WiFi/LAN					
LCD/LED Display	LCD1602					
General Data						
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude (m)	4000m					
Noise (dB)	<65					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	434×570×243 (Excluding Connectors and Brackets)					
Weight (kg)	39					
Warranty	Standard 5 years, extended warranty					
Type of Cooling	Intelligent Air Cooling					
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC 62116,IEC 61727,G99,G98, VDE 0126-1-1,RD 1699,C10-11, ANBT NBR 16149,ANBT NBR 16150, EN 50549-1, NC RFG					
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					